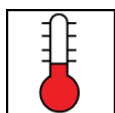


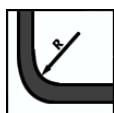
LANmark-6 10G F1TP LSZH 1000m reel

Nexans ref.: N100.622G

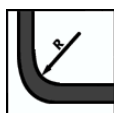
- Complies to 10GBase-T as in IEEE 802.3an
- Guaranteed performance to 500MHz
- Fully screened for alien crosstalk immunity
- Foil with alu outside offers ease of installation



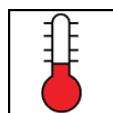
Operating temperature,
range
-20 .. 60 °C



Min. static operating bending
rad.
35.5 mm



Laying operation bending
rad.
71.0 mm



Ambient install temp, range
(°C)
0 .. 50 °C



Flame retardant
IEC 60332-1

LANmark-6 10G F1TP LSZH 1000m reel

Description

Application

LANmark-6 10G cable is the ultimate solution for a future proof network. The range consists of screened cables specified to frequencies up to 500MHz. They have been designed specifically to support the higher frequencies required for 10 Gigabit Ethernet, yet is fully backwards compatible with today's needs. In addition to the requirements of the EIA/TIA 568-B.2-1 and ISO/IEC 11801:2002 Category 6, the LANmark-6 10G products are additionally specified to 500MHz and are screened to ensure immunity from Alien Crosstalk and other external interference.

- 10Base-T Ethernet
- 100Base-TX Fast Ethernet
- 1000Base-TX Gigabit Ethernet
- 10GBase-T 10 Gigabit Ethernet IEEE 802.3 draft 2.3
- 155 Mbit ATM
- 1.2 Gbit ATM
- future class E applications

Performance

With guaranteed performance to 500MHz, Nexans LANmark-6 10G cables provide guaranteed headroom and bandwidth over and above the requirements of all international, european and american cable standards, including ISO/IEC 11801:2002, IEC 61156-5, EN 50173, EN 50288, TIA/EIA 568-B.2-1. When used in conjunction with Nexans LANmark-6 10G Evo connectors and LANmark-6 10G Ultim patch cords, the system exceeds the stringent link and full 100m four-connector channel requirements defined for Class E and for 10GBase-T as defined in IEEE 802.3an draft 2.3 and TSB-155 draft 3.0.

Installation

The LANmark-6 10G cables have the advantage of offering equal dimensions and flexibility as the equivalent LANmark-6 screened cables. Same installation practices and handling can be applied.

Guarantees

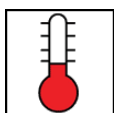
Nexans LANmark-6 10G cable is covered by a parts and labour warranty as described in the Nexans Certified System Warranty. When installed in combination with other LANmark-6 10G components, a 25 years channel warranty can be obtained, covering 10GBase-T support to the IEEE 802.3an draft 2.3.



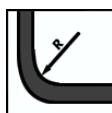
LANmark-6

Standards

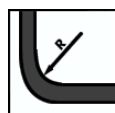
International EN 50288;IEC 61156-5;ISO/IEC 11801
National TIA/EIA-568-B.2-1



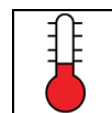
Operating temperature, range
-20 .. 60 °C



Min. static operating bending rad.
35.5 mm



Laying operation bending rad.
71.0 mm



Ambient install temp, range (°C)
0 .. 50 °C

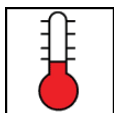


Flame retardant
IEC 60332-1

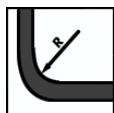
LANmark-6 10G F1TP LSZH 1000m reel

Contact

Cabling Solutions
Alsebergsesteenweg 2, b3
B-1501 Buizingen
Belgium
Phone: +32 2 363 38 00
info.ncs@nexans.com



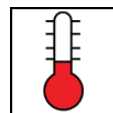
Operating temperature,
range
-20 .. 60 °C



Min. static operating bending
rad.
35.5 mm



Laying operation bending
rad.
71.0 mm



Ambient install temp. range
(°C)
0 .. 50 °C



Flame retardant
IEC 60332-1

LANmark-6 10G F1TP LSZH 1000m reel

Nexans ref.: N100.622G

Characteristics

Construction characteristics

Type of cable	FTP
Outer sheath	LSZH
Colour	Orange

Dimensional characteristics

Diameter over insulation	1.1 mm
Nominal outer diameter (mm)	7.1 mm
Approximate weight (kg/km)	52 kg/km
Conductor cross-section (AWG)	23

Electrical characteristics

Mutual capacitance (nF/km)	45 nF/km
Characteristic impedance	100 Ohm
Max. DC-resistance of the conductor at 20° C	190 Ohm/km
Transfer impedance	100

Transmission characteristics

Attenuation Crosstalk Ratio, 250MHz	6.3 dB/100m
Skew	45 ns/100m
Velocity of propagation	67.0 %
Coupling attenuation at 30 MHz	80 dB
Propagation delay, max. 100 MHz	536 ns/100m

Usage characteristics

Packaging	Reel
Length (m)	1000 m
Operating temperature, range	-20 .. 60 °C
Minimum static operating bending radius	35.5 mm
Laying operation bending radius	71.0 mm
Ambient installation temperature, range (°C)	0 .. 50 °C
Category	Cat. 6
Flame retardant	IEC 60332-1

Electrical Performance LANmark-6 10G 100m 4 connector channel

all values are specified at 20°C

Freq	Attn dB		NEXT dB		PSNEXT dB		ELFEXT dB		PS ELFEXT dB		PS ANEXT dB		PS AELFEXT dB		RL dB	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
1	<4	<4	72.7	>75	70.3	74.3	63.3	>60	60.3	>60	82.0	>90	77.9	87.9	19.0	21.0
4	4.2	4.1	63.0	66.0	60.5	64.5	51.2	57.2	48.2	57.2	76.0	>90	65.9	75.9	19.0	21.0
10	6.6	6.5	56.6	59.6	54.0	58.0	43.3	49.3	40.3	49.3	72.0	87.0	57.9	67.9	19.0	21.0
16	8.3	8.2	53.2	56.2	50.6	54.6	39.2	45.2	36.2	45.2	70.0	85.0	53.8	63.8	18.0	20.0
20	9.3	9.2	51.6	54.6	49.0	53.0	37.2	43.2	34.2	43.2	69.0	84.0	51.9	61.9	17.5	19.5
31.25	11.7	11.6	48.4	51.4	45.7	49.7	33.4	39.4	30.4	39.4	67.1	82.1	48.0	58.0	16.5	18.5
62.5	16.9	16.6	43.4	46.4	40.6	44.6	27.3	33.3	24.3	33.3	64.0	79.0	42.0	52.0	14.0	16.0
100	21.7	21.4	39.9	42.9	37.1	41.1	23.3	29.3	20.3	29.3	62.0	77.0	37.9	47.9	12.0	14.0

LANmark-6 10G F1TP LSZH 1000m reel

155	27.6	27.1	36.7	39.7	33.8	37.8	19.5	25.5	16.5	25.5	59.1	74.1	34.1	44.1	10.1	12.1
200	31.7	31.2	34.8	37.8	31.9	35.9	17.2	23.2	14.2	23.2	57.5	72.5	31.9	41.9	9.0	11.0
250	35.9	35.4	33.1	36.1	30.2	34.2	15.3	21.3	12.3	21.3	56.0	71.0	29.9	39.9	8.0	10.0
300	39.8	39.2	31.7	34.7	28.8	32.8	13.7	19.7	10.7	19.7	54.8	69.8	28.4	38.4	7.2	9.2
500	53.4	52.6	22.0	25.0	20.4	24.4	9.3	15.3	6.3	15.3	51.5	66.5	23.9	33.9	6.0	8.0

Guaranteed values are as specified in IEEE 802.3an 10GBase-T standard and TSB-155